

Aeronautical Systems Center

Rapidly delivering war-winning capability



T-38 Escape System Upgrade Program ESUP

29 Sep 03

**T-38 Ejection Seat
Team**

ASC/YT

U.S. AIR FORCE



Overview



Rapidly delivering war-winning capability

- **Near Term Goals**
- **Requirements**
- **Funding**
- **Considerations**
- **Recent Activities**
- **Strategies Alternatives**



Near Term Goals

Rapidly delivering war-winning capability

- **Reenergize interaction w/ industry**
- **Get industry feedback on cost & schedule implication of alternatives**
- **Develop a detailed understanding of alternatives: costs and benefits**



Requirement

Rapidly delivering war-winning capability



- **Upgrade the escape system**
- **Increase anthropometric accommodation**



Funding



Rapidly delivering war-winning capability

- **FY02 Congressional Adds**
 - **Production/Modification Funds**
- **No RDT&E Funding**
- **No FY04 & Beyond Production Funds**



Program Considerations



Rapidly delivering war-winning capability

- **What do we expect an escape system upgrade to cost?**
- **What do we expect full accommodation to cost?**
- **Is it practical to separate the requirement into two separate designs?**
- **Will the requirements dictate structural and flight control changes?**



Recent Activity



Rapidly delivering war-winning capability

- **T-38C Mock-up for anthro measurement**
- **Preliminary cost estimate for escape system**
- **Cost estimate for full accommodation in progress**
- **Current knowledge indicates more benefit from single design versus a build up of capability**



Rapidly delivering war-winning capability

POTENTIAL

ACQUISITION STRATEGIES



Strategy Alternative #1



Rapidly delivering war-winning capability

- **Upgraded escape system and accept the accompanying anthro accommodation**
 - **Proposed systems must maintain or increase current level of accommodation**
 - **Accommodation increase used as a discriminator**
 - **Safe Escape/Safe Operation requirements must be met**

- **RFP**
 - **Competitive Source Selection**
 - **One Contract to be awarded**



Strategy Alternative #2



Rapidly delivering war-winning capability

Consider Multiple options for both:

- **Upgrading escape system and;**
- **Anthro accommodation of JPATS cases 1- 6 to safely and effectively operate the T-38C aircraft.**
 - **Proposed systems must meet required level of accommodation, 103 - 245 lbs. and JPATS cases 1-6**
 - **Safe Escape/Safe Operation requirements must be met**
- **RFP**
 - **Competitive Source Selection**
 - **One Contract to be awarded**



Strategy Alternative #3



Rapidly delivering war-winning capability

- **Upgrade escape system design and;**
- **Design options for anthro accommodation of JPATS cases 1 - 6 (JPATS case 7 will remain a goal) to safely and effectively operate the T-38C aircraft.**
- **RFP - 2 phase competitive source selection**
 - **Select multiple bidders to provide preliminary designs for Escape System and Accommodation**
 - **Approximately 1 year after award, conduct preliminary design reviews and down-select**
 - **Award a contract to a single source based upon their proposal which includes fixed priced options for production and installation**



Rapidly delivering war-winning capability

Questions and Responses